

***Amendments to the Claims***

The listing of claims will replace all prior versions, and listings of claims in the application.

1-6. *(canceled)*

7. *(currently amended)* An ESD protection circuit, comprising:

one or more first diodes ~~on a first area of P-substrate~~ coupled in series between a supply voltage and a terminal pad, each of said one or more first diodes having an n+ and a p+ diffusion region in an N-well on a first area of P-substrate;

a second diode ~~on said first area of P-substrate~~ coupled to a ground, said second diode having an n+ and a p+ diffusion region on said first area of P-substrate; and

one or more third diodes ~~on a second area of P-substrate~~ coupled in series between said terminal pad and said second diode, each of said one or more third diodes having an n+ and a p+ diffusion region ~~on said a~~ on a second area of P-substrate separated by a deep N-well from said first area of P-substrate.

8-9. *(canceled)*

10. *(previously presented)* The ESD protection circuit of claim 7, wherein said first area of P-substrate is coupled to said ground.

11. *(previously presented)* The ESD protection circuit of claim 7, wherein an allowable signal swing at said terminal pad is greater than said supply voltage plus 1.4 V.

12. *(previously presented)* The ESD protection circuit of claim 7, wherein a forward turn-on voltage of each of said one or more first diodes, said second diode, and said one or more third diodes is approximately 0.7 V.

13. *(currently amended)* An ESD protection circuit, comprising:

a first diode in a first N-well on a first area of P-substrate, said first diode having a cathode coupled to a supply voltage ~~and an anode coupled to a cathode of;~~

a second diode, ~~said second diode~~ in a second N-well on said first area of P-substrate, said second diode having a cathode coupled to an anode of said first diode and an anode coupled to a terminal pad; ~~and~~

a third diode on a second area of P-substrate separated by a deep N-well from said first area of P-substrate, said third diode having a cathode coupled to said terminal pad ~~and an anode coupled to a cathode of; and~~

a fourth diode, ~~said fourth diode~~ on said first area of P-substrate, said fourth diode having a cathode coupled to an anode of said third diode and an anode coupled to a ground, ~~wherein said third diode includes an n<sup>+</sup> region on said second area of P-substrate separated by a deep N-well from said first area of P-substrate, and wherein said fourth diode includes an n<sup>+</sup> region on said first area of P-substrate.~~

14. *(currently amended)* The ESD protection circuit of claim 13, wherein said first diode and said second diode each includes an n+ and a p+ diffusion region in ~~[[an]]~~ said first and second N-wells, respectively, on said first area of P-substrate.
15. *(previously presented)* The ESD protection circuit of claim 13, wherein an interconnection node between said third diode and said fourth diode is isolated from said ground.
16. *(previously presented)* The ESD protection circuit of claim 13, wherein said first area of P-substrate is coupled to said ground.
17. *(previously presented)* The ESD protection circuit of claim 13, wherein an allowable signal swing at said terminal pad is greater than said supply voltage plus 1.4 V.
18. *(previously presented)* The ESD protection circuit of claim 13, wherein a forward turn-on voltage of each of said first diode, said second diode, said third diode, and said fourth diode is approximately 0.7 V.
19. *(new)* The ESD protection circuit of claim 13, wherein said third diode includes an n+ and a p+ diffusion region in said deep N-well.
20. *(new)* The ESD protection circuit of claim 13, wherein said fourth diode includes an n+ and a p+ diffusion region on said first area of P-substrate.

21.     (*new*) The ESD protection circuit of claim 13, further comprising a plurality of said third diode coupled in series between said second diode and said fourth diode.
  
22.     (*new*) The ESD protection circuit of claim 7, wherein an interconnection node between one of said third diodes and said second diode is isolated from said ground.